

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the present application:

Listing of Claims:

1. (currently amended) A method for providing position assist information from a base station, comprising:

receiving, ~~from a GPS satellite,~~ GPS satellite information through an antenna at the base station ~~from a GPS satellite;~~

transmitting, from the base station, the received GPS satellite information to a GPS enabled device at a time that is not associated with a position request;

receiving, from the GPS enabled device, decoded position signals generated by the GPS enabled device using the GPS satellite ~~information requiring at least some processing to determine a position of the GPS enabled device;~~ and

transmitting, from the base station to the GPS enabled device, the position of the GPS enabled device ~~based on~~ determined from the decoded position signals information.

2. (previously presented) The method of claim 1, wherein the GPS satellite information is transmitted periodically.

3. (original) The method of claim 1, further comprising periodically locating GPS satellites, wherein the GPS satellites information is periodically received from the located GPS satellites.

4. (original) The method of claim 3, further comprising processing the received GPS satellite information and transmitting the processed information to the GPS enabled device.

5. (currently amended) The method of claim 1, further comprising determining, at the base station, the position of the GPS enabled device based on the decoded position information signals.

6. (original) The method of claim 1, further comprising transmitting the information to the GPS enabled device each time the GPS enabled device registers with the base station.

7. (original) The method of claim 1, wherein the transmitted information includes access assist information.

8. (original) The method of claim 1, wherein the transmitted information includes sensitivity assist information.

9. (cancelled)

10. (cancelled)

11. (currently amended) The method of claim 1, further comprising:

 sending the decoded position information signals to a position determination entity;

 receiving a position of the GPS enabled device determined from the decoded position information signals from the position determination entity; and

 transmitting the position to the GPS enabled device.

12. (currently amended) A method for receiving position assist information from a base station, comprising:

 receiving GPS satellite information from the base station at a time that is not associated with a position request, the GPS satellite information received through an antenna as the base station;

 storing the received GPS satellite information;

receiving the position request;
automatically acquiring GPS satellites using the stored information in response to the received position request;
receiving position ~~information~~ signals from the acquired GPS satellites;
decoding the received position ~~information~~ signals to generate decoded position signals ~~information that requires processing to determine a position~~;
transmitting the decoded position ~~information~~ signals to the base station; and
receiving, from the base station, a position determined from the decoded position signals ~~information from the base station~~.

13. (currently amended) The method of claim 12, wherein the GPS satellite information is received from the base station periodically.

14. (original) The method of claim 12, further comprising registering with the base station, and receiving the GPS satellite information during the registration.

15. (cancelled)

16. (cancelled)

17. (original) The method of claim 12, further comprising adjusting a correlation time based on the stored information in order to improve the chances of acquiring the GPS satellites.

18. (original) The method of claim 12, wherein the received information includes access assist information.

19. (original) The method of claim 12, wherein the received information includes sensitivity assist information.

20. (currently amended) A base station, comprising:

a GPS receiver configured to locate, and receive information from, GPS satellites;

a transmitter configured to transmit the received GPS satellite information to a GPS enabled device at a time that is not associated with a position request;

a receiver configured to receive decoded position ~~information~~ signals from the GPS enabled device; and

wherein the base station is configured to determine a position of the GPS enabled device based on the received decoded position ~~information~~ signals, and to transmit the determined position to the GPS enabled device.

21. (original) The base station of claim 20, wherein the GPS receiver is configured to locate the GPS satellites periodically.

22. (original) The base station of claim 20, further comprising a processor configured to process the received GPS satellite information, wherein the transmitter is configured to transmit the processed information to the GPS enabled devices.

23. (original) The base station of claim 20, further comprising a network interface configured to interface the base station with a position determination entity, wherein the base station is configured to receive GPS satellites information from the position determination entity through the network interface.

24. (original) The base station of claim 20, further comprising a receiver configured to receive registration requests from the GPS enabled device, wherein the base station is configured to transmit the GPS satellite information in response to the registration request.

25. (original) The base station of claim 20, wherein the transmitted information includes access assist information.

26. (original) The base station of claim 20, wherein the transmitted information includes sensitivity assist information.

27. (cancelled)

28. (cancelled)

29. (currently amended) The base station of claim 20, further comprising a position determination entity, wherein the position determination entity is configured to determine the position from the decoded position information signals.

30. (currently amended) The base station of claim 20, further comprising a network interface configured to interface the base station with a position determination entity, the base station configured to:

send the decoded position information signals to the position determination entity through the network interface;

receive a position of the GPS enabled device determined from the decoded position information signals from the position determination entity through the network interface; and

transmit the position to the GPS enabled device.

31. (original) The base station of claim 20, wherein the transmitter is configured to transmit the received GPS satellite information to the GPS enabled device over a control channel.

32. (original) The base station of claim 31, wherein the control channel is a PCS common control channel.

Claims 33-42 (cancelled).

43. (currently amended) A GPS enabled device, comprising:

a receiver configured to receive GPS satellite information from a base station at a time that is not associated with a position request, the GPS satellite information based on signals received through an antenna at the base station;

a memory configured to store the received GPS satellite information;

a GPS receiver configured to, in response to the position request, automatically acquire GPS satellites using the stored GPS satellite information, receive position information from the acquired GPS satellites and decode the received satellite information to generate decoded position signals ~~information that requires processing to determine a position~~; and

a transmitter configured to transmit the decoded position information signals to the base station, the receiver further configured to receive the position determined from the decoded position information signals from the base station.

44. (previously presented) The GPS enabled device of claim 43, further comprising a transmitter, wherein the GPS enabled device is configured to transmit a registration request to the base station using the transmitter, and wherein the GPS satellite information is received during the registration.

45. (cancelled)

46. (original) The GPS enabled device of claim 43, further configured to adjust a correlation time based on the stored information in order to improve the chances of acquiring the GPS satellites.

47. (cancelled)

48. (cancelled)

49. (original) The GPS enabled device of claim 43, further configured to receive the GPS satellite information from the base station over a control channel.

50. (original) The GPS enabled device of claim 49, wherein the control channel is a PCS common control channel.

51. (currently amended) A wireless communication system, comprising:

a base station, comprising:

a GPS receiver configured to receive GPS satellite information through an antenna from a GPS satellite; and

a transmitter configured to transmit the GPS satellite information; and

a GPS enabled device, comprising:

a receiver configured to receive the GPS satellite information from the base station at a time that is not associated with a position request;

a memory device configured to store the received GPS satellite information;

a another GPS receiver configured to, in response to the position request, automatically acquire GPS satellites using the stored GPS satellite information, receive position information from the acquired GPS satellites and decode the received satellite information to generate decoded position signals ~~information that requires processing to determine a position~~; and

a transmitter, configured to transmit the decoded position information signals to the base station, the receiver further configured to receive, from the base station, a GPS enabled device position determined from the decoded position signals.

52. (cancelled)

53. (currently amended) The wireless communication system of claim 51, further comprising a position determination entity, wherein the base station further comprises a network interface configured to interface the base station with the position determination entity, and wherein the base station configured to receive the ~~GPS satellite information~~ GPS enabled device position from the position determination entity through the network interface.

54. (original) The wireless communication system of claim 51, wherein the base station further comprises a processor configured to process the GPS satellite information, and wherein the base station is configured to transmit the processed information.

55. (original) The wireless communication system of claim 51, wherein the base station further comprises a receiver configured to periodically receive registration requests from the GPS enabled device, and wherein the base station is configured to transmit the GPS satellite information in response to the registration request.

56. (currently amended) The wireless communication system of claim 51, wherein the ~~transmitted~~ GPS satellite information includes at least one of access assist information and sensitivity assist information.

57. (currently amended) The wireless communication system of claim 51, wherein the ~~GPS enabled device further comprises a transmitter~~ in the GPS enabled device is further configured to periodically transmit a registration request to the base station, and wherein the GPS satellite information is received during the periodic registrations.

58. (cancelled)

59. (original) The wireless communication system of claim 51, wherein the GPS enabled device is further configured to adjust a correlation time based on the stored information in order to improve the chances of acquiring the GPS satellites.

60. (cancelled)

61. (currently amended) The wireless communication system of claim 51, wherein the base station further comprises a full position determination entity, and wherein the position determination entity is configured to determine the GPS enabled device position from the decoded position ~~information~~ signals.

62. (currently amended) The wireless communication system of claim 51, wherein the base station further comprises a receiver, the receiver configured to receive the decoded position information signals from the GPS enabled device.

63. (currently amended) The wireless communication system of claim 62, wherein the base station is further configured to determine a position of the GPS enabled device based on the decoded position information signals, and to transmit the determined position to the GPS enabled device.

64. (currently amended) The wireless communication system of claim 62, further comprising a position determination entity, wherein the base station further comprises a network interface configured to interface the base station with the position determination entity, the base station configured to:

send the decoded position information signals to the position determination entity through the network interface;

receive a position of the GPS enabled device determined from the decoded position information signals from the position determination entity through the network interface; and

transmit the position to the GPS enabled device.

65. (original) The wireless communication system of claim 51, further comprising a control channel, wherein the GPS enabled device is configured to receive the GPS satellite information from the base station over the control channel.

66. (original) The wireless communication system of claim 65, wherein the control channel is a PCS common control channel.

67. (new) A base station comprising:
a GPS receiver to receive GPS satellite information from a GPS satellite;
a transmitter to transmit the GPS satellite information to a GPS enabled

device at a time that is not associated with a position request;

a receiver to receive decoded position signals generated by the GPS enabled device using the GPS satellite information and GPS position signals received from the GPS satellite at the GPS enabled device;

a processor to determine a position of the GPS enabled device using the decoded position signals, the transmitter further configured to transmit the position to the GPS enabled device.

68. (new) The base station of claim 67, further comprising a communications receiver configured to periodically receive registration requests from the GPS enabled device, the base station configured to transmit the GPS satellite information in response to the registration requests.

69. (new) The base station of claim 67, wherein the GPS satellite information includes access assist (AA) information.

70. (new) The base station of claim 67, wherein the GPS satellite information includes sensitivity assist (SA) information.

71. (new) The base station of claim 67, wherein the transmitter is further configured to transmit the received GPS satellite information to the GPS enabled device over a control channel.

72. (new) The base station of claim 71, wherein the control channel is a PCS common control channel.